## INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/22718

A CLASSIFICATION OF SUBJECT MATTER  IPC(7) : A01N 63/00; A61K 48/00  US CL : 424/93.2  According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED  Minimum documentation searched (classification system followed by classification symbols)  U.S.: 424/93.2  Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  Please See Continuation Sheet							
C. DOCU	JMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where app		Relevant to claim No.				
x	FISCHER et al. Overexpression of Sorcin in the Muri Performance, Circulation; October 2000, Vol 102, No SUAREZ et al. In vivo Adenoviral Gene Transfer of S Circulation November 2002 Vol 106, No. 19, Supp. p	1, 6, 7, 12, 13, 14 1-7, 12-14					
X, P	SUAREZ et al. In vivo adenoviral transfer of sorcin reabnormalities of diabetic cardiomyopathy Am. J. Phys 286, pages H68-H75.		1-14, 24-29				
Furthe	r documents are listed in the continuation of Box C.	See patent family annex.					
Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance		"Y" later document published after the inter and not in conflict with the application principle or theory underlying the inver "X" document of particular relevance; the c	but cited to understand the nation laimed invention cannot be				
"E" earlier application or patent published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means		considered novel or cannot be considered to involve an inventive step when the document is taken alone  "Y"  document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art					
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent family					
Date of the actual completion of the international search		Date of mailing of the international search report 20 JUN 2005					
26 May 2005 (26.05.2005)  Name and mailing address of the ISA/US		<u> </u>	· · · · ·				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450		Authorized officer  Brian Whiteman  Telephone No. (571) 272-1600					
Facsimile No. (703) 305-3230							
Form PCT/IS	A/210 (second sheet) (January 2004)		$\cup$				

# BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/22718

Box No. II	Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1.	Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:				
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)				
	ional Searching Authority found multiple inventions in this international application, as follows: ontinuation Sheet				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.  As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. X	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-14 and 24-29  Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

Form PCT/ISA/210 (continuation of first sheet(2)) (January 2004)

### INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/22718

### BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be searched, the appropriate additional search fees must be paid.

Group I, claim(s) 1-14 and 24-29, drawn to a method of increasing contractile in a subject comprising administering a viral vector encoding sorcin in the subject.

Group II, claim(s) 15-20, drawn to a method of identifying an agent that modulates sorcin expression in a sample.

Group III, claim(s) 21, drawn to a method of identifying an agent that modulates cardiac contractile function in a heart of a subject.

Group IV, claim(s) 22 and 23, drawn to a method of diagnosing a cardiac contractile function associated disorder in a subject.

The inventions listed as Groups I-IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

The special technical feature of Group I is considered to be a method of increasing cardiac contractile function in a subject using a viral vector encoding sorcin.

The special technical feature of Group II is considered to be a method of identifying an agent that modulates sorcin expression in a sample

The special technical feature of Group III is considered to be a method of identifying an agent that modulates cardiac contractile function in a heart of a subject.

The special technical feature of Group IV is considered to be a method of diagnosing a cardiac contractile function associated disorder in a subject.

# INTERNATIONAL SEARCH REPORT

International application No. PCT/US04/22718

Continuation of B. FIELDS SEARCHED Item 3: WEST2.1, STN search terms: sorcin, viral, virus, gene therapy, cardiac, heart, diabetes, contractile							
			•				
				•			
		•					
				•			
					,		
		•					
				•			